01 1 6 2002 N

SEQUENCE LISTING

```
<110> The Scripps Research Institute
      Barbas, Carlos
      Stege, Justin
      Guan, Xueni
      Dalmia, Bipin
<120> Methods and compositions to modulate
      expression in plants
<130> 27801-20014.20
<140> 09/765,555
<141> 2001-01-19
<150> 09/620,897
<151> 2000-07-21
<150> US 60/177,468
<151> 2000-01-21
<160> 75
<170> FastSEQ for Windows Version 4.0
<210> 1
<211> 532
<212> DNA
<213> Artificial Sequence
<220>
<223> Promoter CsVMV
<400> 1
tctagaaact agcttccaga aggtaattat ccaagatgta gcatcaagaa tccaatgttt
                                                                         60
acgggaaaaa ctatggaagt attatgtgag ctcagcaaga agcagatcaa tatgcggcac
                                                                       120
atatgcaacc tatgttcaaa aatgaagaat gtacagatac aagatcctat actgccagaa
                                                                       180
tacgaagaag aatacgtaga aattgaaaaa gaagaaccag gcgaagaaaa gaatcttgaa
                                                                       240
gacgtaagca ctgacgacaa caatgaaaag aagaagataa ggtcggtgat tgtgaaagag
                                                                       300
acatagagga cacatgtaag gtggaaaatg taagggcgga aagtaacctt atcacaaagg
                                                                       360
aatcttatcc cccactactt atccttttat atttttccgt gtcatttttg cccttgagtt
                                                                       420
ttcctatata aggaaccaag ttcggcattt gtgaaaacaa gaaaaaattt ggtgtaagct
                                                                       480
attttctttg aagtactgag gatacaactt cagagaaatt tgtaagtttg ta
                                                                       532
<210> 2
<211> 18
<212> DNA
<213> Artificial Sequence
<223> Zinc finger protein 2C7 binding site
<400> 2
```

18

<210> 3

gcgtgggcgg cgtgggcg

```
<211> 51
<212> DNA
<213> Artificial Sequence
<223> Promoter pc7rbTATA
<400> 3
                                                                        51
cccqqqtata taataaqctt ggcattccgg tactgttggt aaagccacca t
<210> 4
<211> 3121
<212> DNA
<213> Artificial Sequence
<223> pND3008 coding region
<400> 4
agcgtgaccc ggtcgtgccc ctctctagag ataatgagca ttgcatgtct aagttataaa
                                                                        60
aaattaccac atattttttt tqtcacactt qtttqaaqtq cagtttatct atctttatac
                                                                       120
                                                                       180
atatatttaa actttactct acqaataata taatctatag tactacaata atatcagtgt
tttagagaat catataaatg aacagttaga catggtctaa aggacaattg agtattttga
                                                                       240
caacaggact ctacagtttt atctttttag tgtgcatgtg ttctcctttt tttttgcaaa
                                                                       300
                                                                       360
tagcttcacc tatataatac ttcatccatt ttattagtac atccatttag ggtttagggt
taatggtttt tatagactaa tttttttagt acatctattt tattctattt tagcctctaa
                                                                       420
                                                                       480
attaaqaaaa ctaaaactct attttagttt ttttatttaa taatttagat ataaaataga
                                                                       540
ataaaataaa qtgactaaaa attaaacaaa taccctttaa gaaattaaaa aaactaagga
aacatttttc ttgtttcgag tagataatgc cagcctgtta aacgccgtcg acgagtctaa
                                                                       600
                                                                       660
cqqacaccaa ccaqcqaacc aqcaqcqtcg cqtcqgqcca aqcqaaqcag acggcacggc
                                                                       720
atttctqtcq ctqcctctqq acccctctcq agagttccqc tccaccgttg gacttgctcc
                                                                       780
qctqtcqqca tccagaaatt gcgtqgcqga gcggcagacg tgagccggca cggcaggcgg
                                                                       840
cctcctcctc ctctcacqqc acqqcaqcta cqqqqqattc ctttcccacc qctccttcqc
                                                                       900
tttcccttcc tcgcccgccg taataaatag acaccccctc cacaccctct ttccccaacc
tcgtgttgtt cggagcgcac acacacacaa ccagatctcc cccaaatcca cccgtcggca
                                                                       960
cctccgcttc aaggtacgcc gctcgtcctc ccccccccc cctctctacc ttctctagat
                                                                      1020
cggcgttccg gtccatggtt agggcccggt agttctactt ctgttcatgt ttgtgttaga
                                                                      1080
tccgtgtttg tgttagatcc gtgctgctag cgttcgtaca cggatqcgac ctgtacqtca
                                                                      1140
gacacgttct gattgctaac ttgccagtgt ttctctttgg ggaatcctgg gatggctcta
                                                                      1200
qccqttccqc aqacqqqatc qatttcatqa ttttttttgt ttcgttgcat agggtttggt
                                                                      1260
ttqccctttt cctttatttc aatatatqcc qtqcacttqt ttqtcqqqtc atcttttcat
                                                                      1320
                                                                      1380
qctttttttt qtcttqqttq tgatgatqtg gtctggttgg gcggtcgttc tagatcggag
                                                                      1440
tagaattetg ttteaaacta eetggtggat ttattaattt tggatetgta tgtgtgtee
atacatattc atagttacga attgaagatg atggatggaa atatcgatct aggataggta
                                                                      1500
tacatqttqa tqcqqqtttt actqatqcat atacaqaqat qctttttqtt cqcttggttg
                                                                      1560
tgatgatgtg gtgtggttgg gcggtcgttc attcgttcta gatcggagta gaatactgtt
                                                                      1620
tcaaactacc tggtgtattt attaattttg gaactgtatg tgtgtgtcat acatcttcat
                                                                      1680
agttacgagt ttaagatgga tggaaatatc gatctaggat aggtatacat gttgatgtgg
                                                                      1740
                                                                      1800
gttttactga tgcatataca tgatggcata tgcagcatct attcatatgc tctaaccttg
agtacctatc tattataata aacaagtatg ttttataatt attttgatct tgatatactt
                                                                      1860
ggatgatggc atatgcagca gctatatgtg gattttttta gccctgcctt catacgctat
                                                                      1920
                                                                      1980
ttatttgctt ggtactgttt cttttgtcga tgctcaccct gttgtttggt gttacttctg
                                                                      2040
caggicqact ctagaggate taiggeecag geggeecteg ageteeceta igetigeeet
gtcgagtcct gcgatcgccg cttttctaag tcggctgatc tgaagcgcca tatccgcatc
                                                                      2100
                                                                      2160
cacacaggee agaageeett ecagtgtega atatgeatge gtaactteag tegtagtgae
caccttacca cccacatccq cacccacaca qqcqaqaaqc cttttqcctg tgacatttgt
                                                                      2220
qqqaqqaaqt ttqccaqqaq tqatqaacqc aaqaqqcata ccaaaatcca taccqqtqaq
                                                                      2280
```

```
aagccctatg cttgccctgt cgagtcctgc gatcgccgct tttctaagtc ggctgatctg
                                                                     2340
aagcgccata teegcateea cacaggeeag aageeettee agtgtegaat atgeatgegt
                                                                     2400
aacttcagtc gtagtgacca ccttaccacc cacatccgca cccacacagg cgagaagcct
                                                                     2460
tttgcctgtg acatttgtgg gaggaagttt gccaggagtg atgaacqcaa qagqcatacc
                                                                     2520
aaaatccatt taagacagaa ggactctaga actagtggcc aggccggcca ggctagcccg
                                                                     2580
aaaaagaaac gcaaagttgg gcgcgccgac gcgctggacg atttcqatct cqacatqctq
                                                                     2640
ggttctgatg ccctcgatga ctttgacctg gatatgttgg gaagcgacgc attggatgac
                                                                     2700
tttgatctgg acatgctcgg ctccgatgct ctggacgatt tcgatctcga tatgttaatt
                                                                     2760
aactaccegt acgaegttee ggaetaeget tettgagaat tegeggeege qqqeeeqaqe
                                                                     2820
ctagggagga gctcaagatc ccccgaattt ccccgatcgt tcaaacattt ggcaataaag
                                                                     2880
tttcttaaga ttgaatcctg ttgccggtct tgcgatgatt atcatctaat ttctqttqaa
                                                                     2940
ttacgttaag catgtaataa ttaacatgta atgcatgacg ttatttatga gatgggtttt
                                                                     3000
tatgattaga gtcccgcaat tatacattta atacgcgata gaaaacaaaa tatagcgcgc
                                                                     3060
aaactaggat aaattatcgc gcgcggtgtc atctatqtta ctaqatccqq qaattqqqta
                                                                     3120
                                                                     3121
<210> 5
<211> 3069
<212> DNA
<213> Artificial Sequence
<220>
<223> pND3018 coding redion
agcgtgaccc ggtcgtgccc ctctctagag ataatgagca ttgcatgtct aagttataaa
                                                                       60
aaattaccac atattttttt tgtcacactt gtttgaagtg cagtttatct atctttatac
                                                                      120
atatatttaa actttactct acgaataata taatctatag tactacaata atatcagtgt
                                                                      180
tttagagaat catataaatg aacagttaga catggtctaa aggacaattg agtattttga
                                                                      240
caacaggact ctacagtttt atctttttag tgtgcatgtg ttctcctttt tttttgcaaa
                                                                      300
tagcttcacc tatataatac ttcatccatt ttattagtac atccatttag ggtttagggt
                                                                      360
taatggtttt tatagactaa tttttttagt acatctattt tattctattt tagcctctaa
                                                                      420
attaagaaaa ctaaaactct attttagttt ttttatttaa taatttagat ataaaataga
                                                                      480
ataaaataaa gtgactaaaa attaaacaaa taccctttaa gaaattaaaa aaactaagga
                                                                      540
aacatttttc ttgtttcgag tagataatqc caqcctqtta aacqccqtcq acqaqtctaa
                                                                      600
660
atctctgtcg ctgcctctgg acccctctcg agagttccgc tccaccgttg gacttgctcc
                                                                      720
gctgtcggca tccagaaatt gcgtggcgga gcggcagacg tgagccggca cggcaggcgg
                                                                      780
cetectecte eteteacgge acggeageta egggggatte ettteecace geteettege
                                                                      840
tttcccttcc tcgcccgccg taataaatag acacccctc cacaccctct ttccccaacc
                                                                      900
tcgtgttgtt cggagcgcac acacacaca ccagatctcc cccaaatcca cccgtcggca
                                                                      960
cetecgette aaggtaegee getegteete eeceeeeee eetetetaee ttetetagat
                                                                    1020
eggegtteeg gteeatggtt agggeeggt agttetaett etgtteatgt ttgtgttaga
                                                                    1080
tecgtgtttg tgttagatee gtgetgetag egttegtaea eggatgegae etgtaegtea
                                                                     1140
gacacgttct gattgctaac ttgccagtgt ttctctttgg ggaatcctgg gatggctcta
                                                                    1200
gccgttccgc agacgggatc gatttcatga ttttttttgt ttcqttqcat agggtttggt
                                                                    1260
ttgccctttt cctttatttc aatatatgcc gtgcacttgt ttgtcgggtc atcttttcat
                                                                    1320
getttttttt gtettggttg tgatgatgtg gtetggttgg geggtegtte tagateggag
                                                                    1380
tagaattctg tttcaaacta cctggtggat ttattaattt tggatctgta tgtgtgtcc
                                                                    1440
atacatattc atagttacga attgaagatg atggatggaa atatcgatct aggataggta
                                                                    1500
tacatgttga tgcgggtttt actgatgcat atacagagat gctttttgtt cgcttggttg
                                                                    1560
tgatgatgtg gtgtggttgg gcggtcgttc attcqttcta qatcqqaqta qaatactqtt
                                                                    1620
tcaaactacc tggtgtattt attaattttg gaactgtatg tgtgtgtcat acatcttcat
                                                                    1680
agttacgagt ttaagatgga tggaaatatc gatctaggat aggtatacat gttgatgtgg
                                                                    1740
gttttactga tgcatataca tgatggcata tgcagcatct attcatatgc tctaaccttg
                                                                    1800
agtacctatc tattataata aacaagtatg ttttataatt attttgatct tgatatactt
                                                                    1860
ggatgatggc atatgcagca gctatatgtg gattttttta gccctgcctt catacgctat
```

1920

ttatttgctt ggtactgttt cttttgtoga tgctcaccct gttgtttggt gttacttctg caggtcgact ctagaggatc cactagtgag ccatagggcta gcatggccgc tgccggaagcc gatgacatcc agatgctgct cgaagccgct gattatctgg aacgccggga gcgcgaagcc gatgacatggct acgccacgat gctgccatat ccgaaaaaga aacgccaggat ggcccaggag gcgcgaagcc gctgctcaggc tcccctatgc ttgccctgcg gatcctcgcg atcgccgctt ttctaagtcg gctgatctga acgccatat ccgcaccaca acaggccaga agcccttcac gtgtcgatatgaagcctt ttgcctgtga catttgtggg aggaagtttg ccaggagtga tgacacgagg gagaagcctt ttgcctgtga catttgtggg aggaagtttg ccaggagtga tgacacgaag aggcatacca aaatccatac cggtgagaaag ccctatgctt gccctgtcga gtcctgcgat cgccgctttt ctaagtcgg tgatctgaag cgccatatcg gcactacaca aggccagaag cccttccagt gtcgaatatg catggagaag ccctatgctt gccctgtcga gtcctgcgat accgcaccc acacaggcga gaagctttt gccgactatc gcactacaca aggccagaag cccttccagt gtcgaatatg catggagaag ctttaggag gtaccacct taccacccac atccgaccc acacagggag gaagctttt gcctgtgac atttgtggga gaagtttgcc aggagtgatg aacgcaagag gcataccaaa atccatttaa gacagaagga ctctagaact aggaggatgatg acggacagaa gccataccaaa atccatttaa gacagaagga ctctagaact aggaggatgatg accggacagaa gcataccaaa atccatttaa gacagaagga ctctagaact acgagatgga ccggacagac gttccggaat accgacgacg gattccccga atttcccga gttccggact acgcttcttg aaagttggt aacgacagtc gattaccaca atttcaccacca gattacaac atttacac gatagaaaac atttggaat gattacact taatttctgt tgaattcagt tagaactccg caattataca tttaatacac gatagaaaac aaaatataac gcgcaaacta ggataaaatta tcgcgcgcgg tgtcatctat gttactagat ccgggaattc ccggacaggaccaccaccaccaccaccaccaccaccacca	1980 2040 2100 2160 2220 2280 2340 2460 2520 2580 2640 2700 2760 2820 2880 2940 3000 3060 3069
<400> 6 cgtgctagcg cgtgggcggc gtgggcgaac aagcgtgggc ggcgtgggcg aacaagcgtg ggcggcgtgg gcgactagtg ctagcgcgtg ggcggcgtgg gcgaacaagc gtgggcggcg tgggcgaaca agcgtgggcg gcgtgggcga ctagtg	60 120 156
<210> 7 <211> 18 <212> DNA <213> Artificial Sequence	
<220> <223> ZFPAp3	
<400> 7 gatggagttg aagaagta	18
<210> 8 <211> 21 <212> DNA <213> Artificial Sequence	
<220> <223> ZFP from -85 to -65	
<400> 8 gcctccttcc tcctctcact c	21
<210> 9	

<211>		
<212>	DNA	
<213>	Artificial Sequence	
<220>		
	ZFPml from -68 to -85	
<400>		10
tgagag	ggagg aaggaggc	18
<210>		
<211>		
<211>		
	Artificial Sequence	
(213)	Militar boquesso	
<220>		
<223>	ZFPm2 from -65 to -82	
<400>	10	
	agagg aggaagga	18
5-5-5-		
<210>	11	
<211>	24	
<212>	DNA	
<213>	Artificial Sequence	
.000		
<220>	ZFP from 294 to 317	
\ZZ3 /	Zrr from 294 to 317	
<400>	11	
	ctact acggetecet cace	24
_		
<210>		
<211>		
<212>		
<213>	Artificial Sequence	
<220×		
<220>	ZFPm3 from 311 to 294	
\223/	Trimo IIOm SII to 254	
<400>	12	
	cgtag tagttggc	18
<210>		
<211>		
<212>		
<213>	Artificial Sequence	
<220×		
<220>	ZFPm4 from 317 to 300	
\ 2237	STERNA LION DIT CO DOO	
<400>	13	
	gggag ccgtagta	18
<210>		
<211>		
<212>	DNA	

<213> Artificial Sequence

<220>

<223> Partial sequence of pMal-ml and zinc finger protein ZFPml

<400> 14						
ccgacaccat	cgaatggtgc	aaaacctttc	gcggtatggc	atgatagcgc	ccggaagaga	60
gtcaattcag	ggtggtgaat	gtgaaaccag	taacgttata	cgatgtcgca	gagtatgccg	120
gtgtctctta	tcagaccgtt	tcccgcgtgg	tgaaccaggc	cagccacgtt	tctgcgaaaa	180
cgcgggaaaa	agtggaagcg	gcgatggcgg	agctgaatta	cattcccaac	cgcgtggcac	240
aacaactggc	gggcaaacag	tcgttgctga	ttggcgttgc	cacctccagt	ctggccctgc	300
acqcqccqtc	gcaaattgtc	gcggcgatta	aatctcgcgc	cgatcaactg	ggtgccagcg	360
taataatatc	gatggtagaa	cgaagcggcg	tcgaagcctg	taaagcggcg	gtgcacaatc	420
ttctcgcgca	acgcgtcagt	gggctgatca	ttaactatcc	gctggatgac	caggatgcca	480
	agctgcctgc					540
cacccatcaa	cagtattatt	ttctcccatg	aagacggtac	gcgactgggc	gtggagcatc	600
tggtcgcatt	gggtcaccag	caaatcgcgc	tgttagcggg	cccattaagt	tctgtctcgg	660
cacatctaca	tctggctggc	tggcataaat	atctcactcg	caatcaaatt	cagccgatag	720
cqqaacqqqa	aggcgactgg	agtgccatgt	ccggttttca	acaaaccatg	caaatgctga	780
atgagggcat	cgttcccact	gcgatgctgg	ttgccaacga	tcagatggcg	ctgggcgcaa	840
tacacaccat	taccgagtcc	gggctgcgcg	ttggtgcgga	tatctcggta	gtgggatacg	900
acqataccqa	agacagctca	tgttatatcc	cgccgttaac	caccatcaaa	caggattttc	960
acctactaga	gcaaaccagc	gtggaccgct	tgctgcaact	ctctcagggc	caggcggtga	1020
agggcaatca	gctgttgccc	gtctcactgg	tgaaaagaaa	aaccaccctg	gcgcccaata	1080
cgcaaaccgc	ctctccccgc	gcattaacca	attcattaat	gcagctggca	cgacaggttt	1140
cccgactgga	aagcgggcag	tgagcgcaac	gcaattaatg	tgagttagct	cactcattag	1200
gcacaattct	catgtttgac	agcttatcat	cgactgcacg	gtgcaccaat	gcttctggcg	1260
tcaggcagcc	atcggaagct	gtggtatggc	tgtgcaggtc	gtaaatcact	gcataattcg	1320
tatcactcaa	ggcgcactcc	cqttctqqat	aatgttttt	gcgccgacat	cataacggtt	1380
ctggcaaata	ttctgaaatg	agctgttgac	aattaatcat	cggctcgtat	aatgtgtgga	1440
attataaaca	gataacaatt	tcacacagga	aacagccagt	ccgtttaggt	gttttcacga	1500
gcacttcacc	aacaaggacc	atagattatg	aaaactgaag	aaggtaaact	ggtaatctgg	1560
attaacggcg	ataaaggcta	taacggtctc	gctgaagtcg	gtaagaaatt	cgagaaagat	1620
accggaatta	aagtcaccgt	tgagcatccg	gataaactgg	aagagaaatt	cccacaggtt	1680
gcggcaactg	gcgatggccc	tgacattatc	ttctgggcac	acgaccgctt	tggtggctac	1740
	gcctgttggc					1800
ccgtttacct	gggatgccgt	acgttacaac	ggcaagctga	ttgcttaccc	gatcgctgtt	1860
gaagcgttat	cgctgattta	taacaaagat	ctgctgccga	acccgccaaa	aacctgggaa	1920
gagatcccgg	cgctggataa	agaactgaaa	gcgaaaggta	agagcgcgct	gatgttcaac	1980
	cgtacttcac					2040
tatgaaaacg	gcaagtacga	cattaaagac	gtgggcgtgg	ataacgctgg	cgcgaaagcg	2100
ggtctgacct	tcctggttga	cctgattaaa	aacaaacaca	tgaatgcaga	caccgattac	2160
	aagctgcctt					2220
gcatggtcca	acatcgacac	cagcaaagtg	aattatggtg	taacggtact	gccgaccttc	2280
aagggtcaac	catccaaacc	gttcgttggc	gtgctgagcg	caggtattaa	cgccgccagt	2340
ccgaacaaag	agctggcaaa	agagttcctc	gaaaactatc	tgctgactga	tgaaggtctg	2400
gaagcggtta	ataaagacaa	accgctgggt	gccgtagcgc	tgaagtctta	cgaggaagag	2460
ttggcgaaag	atccacgtat	tgccgccacc	atggaaaacg	cccagaaagg	tgaaatcatg	2520
	cgcagatgtc					2580
gccagcggtc	gtcagactgt	cgatgaagcc	ctgaaagacg	cgcagactaa	ttcgagctcg	2640
aacaacaaca	acaataacaa	taacaacaac	ctcgggatcg	agggaaggat	ttcagaattc	2700
	cctctgtggc					2760
	gtaagtcctt					2820
acgggtgaaa	aaccgtataa	atgcccagag	tgcggcaaat	cttttagcca	gtccagcaac	2880
ctggtgcgcc	atcaacgcac	tcatactggc	gagaagccat	acaaatgtcc	agaatgtggc	2940
aagtctttct	ctcggtctga	caatctcgtc	cggcaccaac	gtactcacac	cggggagaag	3000

```
ccctatgctt gtccggaatg tggtaagtcc ttcagccgca gcgataacct ggtgcgccac
                                                                      3060
                                                                      3120
caqcqtaccc acacqqqtga aaaaccqtat aaatqcccaq agtqcqqcaa atcttttagc
caggccggcc acctggccag ccatcaacgc actcatactg gcgagaagcc atacaaatgt
                                                                      3180
ccagaatgtg gcaagtcttt ctctcggtct gacaatctcg tccggcacca acgtactcac
                                                                      3240
                                                                      3300
accqqtaaaa aaactaqtqq ccaqqccqqc caqtacccqt acgacqttcc ggactacqct
<210> 15
<211> 3300
<212> DNA
<213> Artificial Sequence
<220>
<223> Partial sequence of pMal-m2 and zinc finger
     protein ZFPm2
<400> 15
                                                                        60
ccqacaccat cqaatqqtqc aaaacctttc qcqqtatqqc atgataqcqc ccqgaaqaqa
                                                                       120
qtcaattcaq qqtqqtqaat qtqaaaccaq taacqttata cgatgtcgca gagtatgccg
gtgtctctta tcagaccgtt tcccgcgtgg tgaaccaggc cagccacgtt tctgcgaaaa
                                                                       180
cgcgggaaaa agtggaagcg gcgatggcgg agctgaatta cattcccaac cgcgtggcac
                                                                       240
                                                                       300
aacaactqqc qqqcaaacaq tcqttqctqa ttqgcqttqc cacctccagt ctggccctgc
acgcgccgtc gcaaattgtc gcggcgatta aatctcgcgc cgatcaactg ggtgccagcg
                                                                       360
tqqtqqtqtc qatqqtaqaa cgaagcggcg tcgaagcctg taaagcggcg gtgcacaatc
                                                                       420
                                                                       480
ttctcqcqca acqcqtcaqt qqqctqatca ttaactatcc gctggatgac caggatgcca
ttgctgtgga agctgcctgc actaatgttc cggcgttatt tcttgatgtc tctgaccaga
                                                                       540
                                                                       600
cacccatcaa cagtattatt ttctcccatg aagacggtac gcgactgggc gtggagcatc
                                                                       660
tgqtcqcatt qqqtcaccaq caaatcqcqc tgttagcqqq cccattaagt tctgtctcqq
                                                                       720
egegtetgeg tetggetgge tggeataaat ateteacteg caateaaatt cageegatag
                                                                       780
cqqaacqqqa aqqcqactqq aqtqccatqt ccqqttttca acaaaccatq caaatqctqa
                                                                       840
atgagggcat cgttcccact gcgatgctgg ttgccaacga tcagatggcg ctgggcgcaa
tgcgcgccat taccgagtcc gggctgcgcg ttggtgcgga tatctcggta gtgggatacg
                                                                       900
acgataccga agacagetea tgttatatee egeegttaae eaccateaaa eaggatttte
                                                                       960
                                                                      1020
gcctqctqqq gcaaaccagc gtggaccgct tgctgcaact ctctcagggc caggcggtga
agggcaatca gctgttgccc gtctcactgg tgaaaagaaa aaccaccctg gcgcccaata
                                                                      1080
cgcaaaccgc ctctccccgc gcgttggccg attcattaat gcagctggca cgacaggttt
                                                                      1140
cccgactgga aagcgggcag tgagcgcaac gcaattaatg tgagttagct cactcattag
                                                                      1200
                                                                      1260
gcacaattct catgtttgac agcttatcat cgactgcacg gtgcaccaat gcttctggcg
tcaggcagcc atcggaagct gtggtatggc tgtgcaggtc gtaaatcact gcataattcg
                                                                      1320
                                                                      1380
tqtcqctcaa qqcqcactcc cqttctqqat aatgtttttt gcgccgacat cataacggtt
ctggcaaata ttctgaaatg agctgttgac aattaatcat cggctcgtat aatgtgtgga
                                                                      1440
                                                                      1500
attqtqaqcq qataacaatt tcacacaqqa aacaqccaqt ccgtttaggt gttttcacga
                                                                      1560
gcacttcacc aacaaggacc atagattatg aaaactgaag aaggtaaact ggtaatctgg
                                                                      1620
attaacggcg ataaaggcta taacggtctc gctgaagtcg gtaagaaatt cgagaaagat
                                                                      1680
accqqaatta aaqtcaccqt tqaqcatccq qataaactqq aagagaaatt cccacaggtt
                                                                      1740
qcqqcaactq qcqatqqccc tqacattatc ttctqqqcac acqaccqctt tggtqqctac
gctcaatctg gcctgttggc tgaaatcacc ccggacaaag cgttccagga caagctgtat
                                                                      1800
ccgtttacct gggatgccgt acgttacaac ggcaagctga ttgcttaccc gatcgctgtt
                                                                      1860
                                                                      1920
gaagcgttat cgctgattta taacaaagat ctgctgccga acccgccaaa aacctgggaa
gagatcccgg cgctggataa agaactgaaa gcgaaaggta agagcgcgct gatgttcaac
                                                                      1980
                                                                      2040
ctgcaagaac cgtacttcac ctggccgctg attgctgctg acgggggtta tgcgttcaag
                                                                      2100
tatqaaaacq qcaaqtacqa cattaaaqac gtgggcgtgg ataacgctgg cgcgaaagcg
                                                                      2160
ggtctgacct tcctggttga cctgattaaa aacaaacaca tgaatgcaga caccgattac
                                                                      2220
tccatcgcag aagctgcctt taataaaggc gaaacagcga tgaccatcaa cggcccgtgg
                                                                      2280
gcatggtcca acatcgacac cagcaaagtg aattatggtg taacggtact gccgaccttc
                                                                      2340
aagggtcaac catccaaacc gttcgttggc gtgctgagcg caggtattaa cgccgccagt
ccgaacaaag agctggcaaa agagttcctc gaaaactatc tgctgactga tgaaggtctg
                                                                      2400
                                                                      2460
gaagcggtta ataaagacaa accgctgggt gccgtagcgc tgaagtctta cgaggaagag
```

```
2520
ttggcgaaag atccacgtat tgccgccacc atggaaaacg cccagaaagg tgaaatcatg
                                                                      2580
ccqaacatcc cqcaqatqtc cgctttctgg tatgccgtgc gtactgcggt gatcaacgcc
                                                                      2640
gccagcggtc gtcagactgt cgatgaagcc ctgaaagacg cgcagactaa ttcgagctcg
                                                                      2700
aacaacaaca acaataacaa taacaacaac ctcgggatcg agggaaggat ttcagaattc
                                                                      2760
ggatcctctt cctctgtggc ccaggcggcc ctcgagcccg gggagaagcc ctatgcttgt
                                                                      2820
ccqqaatqtq qtaaqtcctt ctctcagagc tctcacctgg tgcgccacca gcgtacccac
acgggtgaaa aaccgtataa atgcccagag tgcggcaaat cttttagcca gtccagcaac
                                                                      2880
ctggtgcgcc atcaacgcac tcatactggc gagaagccat acaaatgtcc agaatgtggc
                                                                      2940
                                                                      3000
aagtetttet eteggtetga caatetegte eggeaceaac gtacteacae eggggagaag
                                                                      3060
ccctatgctt gtccggaatg tggtaagtcc ttcagccgca gcgataacct ggtgcgccac
cagcgtaccc acacgggtga aaaaccgtat aaatgcccag agtgcggcaa atcttttagc
                                                                      3120
caggeeggee acetggeeag ecateaacge acteatactg gegagaagee atacaaatgt
                                                                      3180
ccagaatgtg gcaagtcttt ctctcggtct gacaatctcg tccggcacca acgtactcac
                                                                      3240
                                                                      3300
accggtaaaa aaactagtgg ccaggccggc cagtacccgt acgacgttcc ggactacgct
```

<210> 16 <211> 3300 <212> DNA

<213> Artificial Sequence

<220>

<223> PArtial sequence of pMal-m3 and zinc finger protein ZFPm3

<400> 16 60 ccgacaccat cgaatggtgc aaaacctttc gcggtatggc atgatagcgc ccggaagaga 120 qtcaattcaq qqtqqtgaat gtgaaaccag taacgttata cgatgtcgca gagtatgccg 180 gtgtctctta tcagaccgtt tcccgcgtgg tgaaccaggc cagccacgtt tctgcgaaaa cgcgggaaaa agtggaagcg gcgatggcgg agctgaatta cattcccaac cgcgtggcac 240 300 aacaactqqc qqqcaaacaq tcgttqctga ttqqcqttqc cacctccaqt ctqqccctqc acgcgccgtc gcaaattgtc gcggcgatta aatctcgcgc cgatcaactg ggtgccagcg 360 420 tggtggtgtc gatggtagaa cgaagcggcg tcgaagcctg taaagcggcg gtgcacaatc ttctcgcgca acgcgtcagt gggctgatca ttaactatcc gctggatgac caggatgcca 480 ttgctgtgga agctgcctgc actaatgttc cggcgttatt tcttgatgtc tctgaccaga 540 600 cacccatcaa caqtattatt ttctcccatg aagacggtac gcgactgggc gtggagcatc 660 tgqtcqcatt qqqtcaccag caaatcgcgc tgttagcggg cccattaagt tctgtctcgg cgcgtctgcg tctggctggc tggcataaat atctcactcg caatcaaatt cagccgatag 720 cggaacggga aggcgactgg agtgccatgt ccggttttca acaaaccatg caaatgctga 780 840 atgagggcat cgttcccact gcgatgctgg ttgccaacga tcagatggcg ctgggcgcaa 900 tgcgcgccat taccgagtcc gggctgcgcg ttggtgcgga tatctcggta gtgggatacg 960 acqataccqa agacaqctca tqttatatcc cgccgttaac caccatcaaa caggattttc 1020 qcctqctqqq qcaaaccaqc qtqqaccqct tqctqcaact ctctcagggc caggcggtga 1080 agggcaatca gctgttgccc gtctcactgg tgaaaagaaa aaccaccctg gcgcccaata 1140 cqcaaaccqc ctctccccqc gcgttggccg attcattaat gcagctggca cgacaggttt cccgactgga aagcgggcag tgagcgcaac gcaattaatg tgagttagct cactcattag 1200 1260 gcacaattct catgtttgac agcttatcat cgactgcacg gtgcaccaat gcttctggcg 1320 tcaqqcaqcc atcggaagct gtggtatggc tgtgcaggtc gtaaatcact gcataattcg 1380 tgtcgctcaa ggcgcactcc cgttctggat aatgtttttt gcgccgacat cataacggtt 1440 ctggcaaata ttctgaaatg agctgttgac aattaatcat cggctcgtat aatgtgtgga 1500 attqtqaqcq gataacaatt tcacacagga aacagccagt ccgtttaggt gttttcacga 1560 gcacttcacc aacaaggacc atagattatg aaaactgaag aaggtaaact ggtaatctgg 1620 attaacggcg ataaaggcta taacggtctc gctgaagtcg gtaagaaatt cgagaaagat accggaatta aagtcaccgt tgagcatccg gataaactgg aagagaaatt cccacaggtt 1680 1740 qcqqcaactq qcqatqqccc tgacattatc ttctgggcac acgaccgctt tggtggctac 1800 gctcaatctg gcctgttggc tgaaatcacc ccggacaaag cgttccagga caagctgtat ccqtttacct qqqatqccqt acqttacaac ggcaagctga ttgcttaccc gatcgctgtt 1860 gaagcgttat cgctgattta taacaaagat ctgctgccga acccgccaaa aacctgggaa 1920

gagatcccgg	cgctggataa	agaactgaaa	gcgaaaggta	agagcgcgct	gatgttcaac	1980
ctgcaagaac	cgtacttcac	ctggccgctg	attgctgctg	acgggggtta	tgcgttcaag	2040
tatgaaaacg	gcaagtacga	cattaaagac	gtgggcgtgg	ataacgctgg	cgcgaaagcg	2100
ggtctgacct	tcctggttga	cctgattaaa	aacaaacaca	tgaatgcaga	caccgattac	2160
	aagctgcctt					2220
gcatggtcca	acatcgacac	cagcaaagtg	aattatggtg	taacggtact	gccgaccttc	2280
aagggtcaac	catccaaacc	gttcgttggc	gtgctgagcg	caggtattaa	cgccgccagt	2340
ccgaacaaag	agctggcaaa	agagttcctc	gaaaactatc	tgctgactga	tgaaggtctg	2400
gaagcggtta	ataaagacaa	accgctgggt	gccgtagcgc	tgaagtctta	cgaggaagag	2460
ttggcgaaag	atccacgtat	tgccgccacc	atggaaaacg	cccagaaagg	tgaaatcatg	2520
ccgaacatcc	cgcagatgtc	cgctttctgg	tatgccgtgc	gtactgcggt	gatcaacgcc	2580
gccagcggtc	gtcagactgt	cgatgaagcc	ctgaaagacg	cgcagactaa	ttcgagctcg	2640
aacaacaaca	acaataacaa	taacaacaac	ctcgggatcg	agggaaggat	ttcagaattc	2700
ggatcctctt	cctctgtggc	ccaggcggcc	ctcgagcccg	gggagaagcc	ctatgcttgt	2760
ccggaatgtg	gtaagtcctt	cagcgatcct	ggccacctgg	ttcgccacca	gcgtacccac	2820
acgggtgaaa	aaccgtataa	atgcccagag	tgcggcaaat	cttttagcac	cagcggctcc	2880
ctggtgcgcc	atcaacgcac	tcatactggc	gagaagccat	acaaatgtcc	agaatgtggc	2940
aagtctttca	gccagagctc	cagcctggtg	cgccaccaac	gtactcacac	cggggagaag	3000
ccctatgctt	gtccggaatg	tggtaagtcc	ttcagccaga	gcagctccct	ggtgcgccac	3060
	acacgggtga					3120
gactgccgcg	accttgctcg	ccatcaacgc	actcatactg	gcgagaagcc	atacaaatgt	3180
	gcaagtcttt					3240
accggtaaaa	aaactagtgg	ccaggccggc	cagtacccgt	acgacgttcc	ggactacgct	3300

<210> 17 <211> 3300

<212> DNA

<213> Artificial Sequence

<220>

<223> Partial sequence of pMal-m4 and zinc finger protein ZFPm4

<400> 17 60 ccgacaccat cgaatggtgc aaaacctttc gcggtatggc atgatagcgc ccggaagaga gtcaattcag ggtggtgaat gtgaaaccag taacgttata cgatgtcgca gagtatgccg 120 180 gtgtctctta tcagaccgtt tcccgcgtgg tgaaccaggc cagccacgtt tctgcgaaaa 240 cgcgggaaaa agtggaagcg gcgatggcgg agctgaatta cattcccaac cgcgtggcac 300 aacaactggc gggcaaacag tcgttgctga ttggcgttgc cacctccagt ctggccctgc acgcgccgtc gcaaattgtc gcggcgatta aatctcgcgc cgatcaactg ggtgccagcg 360 420 tggtggtgtc gatggtagaa cgaagcggcg tcgaagcctg taaagcggcg gtgcacaatc 480 ttctcgcgca acgcgtcagt gggctgatca ttaactatcc gctggatgac caggatgcca ttgctgtgga agctgcctgc actaatgttc cggcgttatt tcttgatgtc tctgaccaga 540 600 cacccatcaa cagtattatt ttctcccatg aagacggtac gcgactgggc gtggagcatc 660 tggtcgcatt gggtcaccag caaatcgcgc tgttagcggg cccattaagt tctgtctcgg 720 cgcgtctgcg tctggctggc tggcataaat atctcactcg caatcaaatt cagccgatag 780 cggaacggga aggcgactgg agtgccatgt ccggttttca acaaaccatg caaatgctga atgagggcat cgttcccact gcgatgctgg ttgccaacga tcagatggcg ctgggcgcaa 840 900 tgcgcgccat taccgagtcc gggctgcgcg ttggtgcgga tatctcggta gtgggatacg 960 acgataccga agacagetea tgttatatee egeegttaac caccateaaa eaggatttte 1020 gcctgctggg gcaaaccagc gtggaccgct tgctgcaact ctctcagggc caggcggtga agggcaatca gctgttgccc gtctcactgg tgaaaagaaa aaccaccctg gcgcccaata 1080 cgcaaaccgc ctctccccgc gcgttggccg attcattaat gcagctggca cgacaggttt 1140 cccgactgga aagcgggcag tgagcgcaac gcaattaatg tgagttagct cactcattag 1200 1260 gcacaattet catgtttgae agettateat egaetgeaeg gtgeaceaat gettetggeg 1320 tcaggcagcc atcggaagct gtggtatggc tgtgcaggtc gtaaatcact gcataattcg tgtcgctcaa ggcgcactcc cgttctggat aatgtttttt gcgccgacat cataacggtt 1380

```
ctggcaaata ttctgaaatg agctgttgac aattaatcat cggctcgtat aatgtgtgga
                                                                      1440
                                                                      1500
attqtqaqcq qataacaatt tcacacagga aacagccagt ccqtttaggt gttttcacga
                                                                      1560
gcacttcacc aacaaggacc atagattatg aaaactgaag aaggtaaact ggtaatctgg
attaacggcg ataaaggcta taacggtctc gctgaagtcg gtaagaaatt cgagaaagat
                                                                      1620
                                                                      1680
accggaatta aagtcaccgt tgagcatccg gataaactgg aagagaaatt cccacaggtt
                                                                      1740
qcqqcaactq qcqatqqccc tqacattatc ttctgggcac acgaccgctt tggtggctac
                                                                      1800
gctcaatctg gcctgttggc tgaaatcacc ccggacaaag cgttccagga caagctgtat
ccgtttacct gggatgccgt acgttacaac ggcaagctga ttgcttaccc gatcgctgtt
                                                                      1860
                                                                      1920
qaaqcqttat cqctqattta taacaaaqat ctgctqccga acccgccaaa aacctgggaa
                                                                      1980
qaqatcccqq cqctqqataa agaactqaaa gcgaaaggta agaqcqcqct gatgttcaac
                                                                      2040
ctgcaagaac cgtacttcac ctggccgctg attgctgctg acgggggtta tgcgttcaag
                                                                      2100
tatgaaaacg gcaagtacga cattaaagac gtgggcgtgg ataacgctgg cgcgaaagcg
                                                                      2160
qqtctqacct tcctqqttqa cctgattaaa aacaaacaca tgaatgcaga caccgattac
                                                                      2220
tccatcgcag aagctgcctt taataaaggc gaaacagcga tgaccatcaa cggcccgtgg
gcatggtcca acatcgacac cagcaaagtg aattatggtg taacggtact gccgaccttc
                                                                      2280
                                                                      2340
aaqqqtcaac catccaaacc gttcgttggc gtgctgagcg caggtattaa cgccgccagt
ccqaacaaaq aqctqqcaaa aqagttcctc gaaaactatc tgctgactga tgaaggtctg
                                                                      2400
                                                                      2460
qaaqcqqtta ataaaqacaa accqctqqqt qccqtagcqc tgaaqtctta cgaggaagag
                                                                      2520
ttqqcqaaaq atccacqtat tqccqccacc atqqaaaacq cccagaaagg tgaaatcatg
                                                                      2580
ccqaacatcc cgcagatgtc cgctttctgg tatgccgtgc gtactgcggt gatcaacgcc
gccagcggtc gtcagactgt cgatgaagcc ctgaaagacg cgcagactaa ttcgagctcg
                                                                      2640
                                                                      2700
aacaacaaca acaataacaa taacaacaac ctcgggatcg agggaaggat ttcagaattc
qgatcctctt cctctgtggc ccaggcggcc ctcgagcccg gggagaagcc ctatgcttgt
                                                                      2760
                                                                      2820
ccqqaatqtq qtaaqtcctt cagccagagc agctccctgg tgcgccacca gcgtacccac
acgggtgaaa aaccgtataa atgcccagag tgcggcaaat cttttagcca gagcagcagc
                                                                      2880
                                                                      2940
ctggtgcgcc atcaacgcac tcatactggc gagaagccat acaaatgtcc agaatgtggc
                                                                      3000
aaqtetttea qtqattqteq tqatettqeq aggeaccaac qtaetcacac cggggagaag
                                                                      3060
ccctatqctt qtccqqaatq tqqtaaqtcc ttctctcaga gctctcacct ggtgcgccac
                                                                      3120
caqcqtaccc acacqqqtqa aaaaccqtat aaatgcccag agtgcggcaa atcttttagc
                                                                      3180
cgcagcgata acctggtgcg ccatcaacgc actcatactg gcgagaagcc atacaaatgt
ccagaatgtg gcaagtcttt ctcaacttca ggccatttgg tccgtcacca acgtactcac
                                                                      3240
                                                                      3300
accggtaaaa aaactagtgg ccaggccggc cagtacccgt acgacgttcc ggactacgct
<210> 18
<211> 3300
```

<212> DNA

<213> Artificial Sequence

<220>

<223> Parial sequence of pMal-Ap3 and zinc finger
 protein ZFPAp3

```
<400> 18
                                                                        60
ccqacaccat cqaatqqtqc aaaacctttc gcggtatggc atgatagcgc ccggaagaga
                                                                       120
qtcaattcaq qqtqqtqaat qtqaaaccag taacgttata cgatgtcgca gagtatgccg
                                                                       180
gtgtctctta tcagaccgtt tcccgcgtgg tgaaccaggc cagccacgtt tctgcgaaaa
                                                                       240
cgcqqqaaaa agtggaagcg gcgatggcgg agctgaatta cattcccaac cgcgtggcac
                                                                       300
aacaactqqc qqqcaaacaq tcqttqctqa ttqqcqttqc cacctccaqt ctqqccctqc
acgcgccgtc gcaaattgtc gcggcgatta aatctcgcgc cgatcaactg ggtgccagcg
                                                                       360
                                                                       420
tggtggtgtc gatggtagaa cgaagcggcg tcgaagcctg taaagcggcg gtgcacaatc
                                                                       480
ttctcqcqca acqcqtcaqt qqqctqatca ttaactatcc gctggatgac caggatgcca
ttgctgtgga agctgcctgc actaatgttc cggcgttatt tcttgatgtc tctgaccaga
                                                                       540
                                                                       600
cacccatcaa caqtattatt ttctcccatq aagacqqtac gcgactgggc gtggagcatc
                                                                       660
tggtcgcatt gggtcaccag caaatcgcgc tgttagcggg cccattaagt tctgtctcgg
                                                                       720
cgcqtctqcq tctqqctqqc tgqcataaat atctcactcq caatcaaatt cagccgatag
                                                                       780
cqqaacqqqa aqqcqactqq aqtqccatgt ccggttttca acaaaccatg caaatgctga
atgagggcat cgttcccact gcgatgctgg ttgccaacga tcagatggcg ctgggcgcaa
                                                                       840
```

```
900
tgcqcqccat taccgagtcc gggctgcgcg ttggtgcgga tatctcggta gtgggatacg
acgataccga agacagetea tgttatatee egeegttaae caccateaaa eaggatttte
                                                                       960
gcctgctggg gcaaaccagc gtggaccgct tgctgcaact ctctcagggc caggcggtga
                                                                      1020
                                                                      1080
aqqqcaatca qctqttqccc qtctcactgg tgaaaagaaa aaccaccctg gcgcccaata
                                                                      1140
cgcaaaccgc ctctccccgc gcgttggccg attcattaat gcagctggca cgacaggttt
cccgactgga aagcgggcag tgagcgcaac gcaattaatg tgagttagct cactcattag
                                                                      1200
gcacaattct catgtttgac agcttatcat cgactgcacg gtgcaccaat gcttctggcg
                                                                      1260
                                                                      1320
tcaggcagcc atcggaagct gtggtatggc tgtgcaggtc gtaaatcact gcataattcg
                                                                      1380
tqtcqctcaa qqcqcactcc cqttctqqat aatqtttttt qcqccqacat cataacqqtt
ctggcaaata ttctgaaatg agctgttgac aattaatcat cggctcgtat aatgtgtgga
                                                                      1440
attgtgagcg gataacaatt tcacacagga aacagccagt ccgtttaggt gttttcacga
                                                                      1500
                                                                      1560
qcacttcacc aacaaggacc atagattatg aaaactgaag aaggtaaact ggtaatctgg
                                                                      1620
attaacqqcq ataaaqqcta taacqqtctc qctgaaqtcg gtaagaaatt cgagaaagat
accggaatta aagtcaccgt tgagcatccg gataaactgg aagagaaatt cccacaggtt
                                                                      1680
                                                                      1740
qcqqcaactq qcqatqqccc tgacattatc ttctgggcac acgaccgctt tggtggctac
                                                                      1800
gctcaatctg gcctgttggc tgaaatcacc ccggacaaag cgttccagga caagctgtat
ccgtttacct gggatgccgt acgttacaac ggcaagctga ttgcttaccc gatcgctgtt
                                                                      1860
                                                                      1920
qaaqcqttat cqctqattta taacaaaqat ctqctqccqa acccqccaaa aacctgggaa
                                                                      1980
gagatcccgg cgctggataa agaactgaaa gcgaaaggta agagcgcgct gatgttcaac
ctgcaagaac cgtacttcac ctggccgctg attgctgctg acgggggtta tgcgttcaag
                                                                      2040
tatgaaaacg gcaagtacga cattaaagac gtgggcgtgg ataacgctgg cgcgaaagcg
                                                                      2100
qqtctqacct tcctqqttqa cctgattaaa aacaaacaca tgaatgcaga caccgattac
                                                                      2160
tccatcgcag aagctgcctt taataaaggc gaaacagcga tgaccatcaa cggcccgtgg
                                                                      2220
                                                                      2280
gcatgqtcca acatcgacac cagcaaagtg aattatggtg taacggtact gccgaccttc
                                                                      2340
aaqqqtcaac catccaaacc gttcgttggc gtgctgagcg caggtattaa cgccqccagt
                                                                      2400
ccgaacaaag agctggcaaa agagttcctc gaaaactatc tgctgactga tgaaggtctg
                                                                      2460
gaagcggtta ataaagacaa accgctgggt gccgtagcgc tgaagtctta cgaggaagag
                                                                      2520
ttqqcqaaaq atccacqtat tqccqccacc atggaaaacg cccagaaagg tgaaatcatg
                                                                      2580
ccqaacatcc cqcaqatqtc cqctttctgg tatgccgtgc gtactgcggt gatcaacgcc
gccagcggtc gtcagactgt cgatgaagcc ctgaaagacg cgcagactaa ttcgagctcg
                                                                      2640
                                                                      2700
aacaacaaca acaataacaa taacaacaac ctcgggatcg agggaaggat ttcagaattc
                                                                      2760
qqatcctctt cctctqtqqc ccaqqcqqcc ctcqaqcccq qqqaqaaqcc ctatqcttqt
ccggaatgtg gtaagtcctt cagccagagc agctccctgg tgcgccacca gcgtacccac
                                                                      2820
acgggtgaaa aaccgtataa atgcccagag tgcggcaaat cttttagcca gtccagcaac
                                                                      2880
ctggtgcgcc atcaacgcac tcatactggc gagaagccat acaaatgtcc agaatgtggc
                                                                      2940
                                                                      3000
aagtetttea gecagteeag caacetggtg egecaceaac gtacteacae eggggagaag
ccctatqctt qtccqqaatg tggtaagtcc ttcagcacca gtggctcctt ggttagacac
                                                                      3060
cagcgtaccc acacgggtga aaaaccgtat aaatgcccag agtgcggcaa atcttttagc
                                                                      3120
cagcgcgccc acctggaacg ccatcaacgc actcatactg gcgagaagcc atacaaatgt
                                                                      3180
                                                                      3240
ccagaatgtg gcaagtcttt ctcaacttca ggcaacttgg tccgtcacca acgtactcac
accggtaaaa aaactagtgg ccaggccggc cagtacccgt acgacgttcc ggactacgct
                                                                      3300
<210> 19
<211> 58
<212> DNA
<213> Artificial Sequence
<220>
<223> Oligo m12
<400> 19
                                                                        58
ggagcctcct tcctcctctc actcgggttt tcccgagtga gaggaggaag gaggctcc
<210> 20
<211> 64
<212> DNA
```

<213> Artificial Sequence

<220> <223> Oligo m34	
<400> 20 ggagccaact actacggctc cctcaccggg ttttcccggt gagggagccg tagtagttgg ctcc	60 64
<210> 21 <211> 52 <212> DNA <213> Artificial Sequence	
<220> <223> Oligo Ap3	
<400> 21 ggttacttct tcaactccat cgggttttcc cgatggagtt gaagaagtaa cc	52
<210> 22 <211> 50 <212> DNA <213> Artificial Sequence	
<220> <223> Oligo NRI-1	
<400> 22 ggttctaccc ctcccaccgc gggttttccc gcggtgggag gggtagaacc	50
<210> 23 <211> 50 <212> DNA <213> Artificial Sequence	
<220> <223> Oligo NRI-2	
<400> 23 ggtgcggcga ctgcagcagc gggttttccc gctgctgcag tcgccgcacc	50
<210> 24 <211> 50 <212> DNA <213> Artificial Sequence	
<220> <223> Oligo hHD-I	
<400> 24 ggggccccgc ctccgccggc gggttttccc gccggcggag gcggggcccc	50
<210> 25 <211> 50 <212> DNA <213> Artificial Sequence	

<220>	
<400> 25 ggggcagccc ccacggcgcc gggttttccc ggcgccgtgg gggctgcccc	50
<210> 26 <211> 50 <212> DNA <213> Artificial Sequence	
<220> <223> Oligo c5p1-g	
<400> 26 gggacacccc caaccccgcc gggttttccc ggcggggttg ggggtgtccc	50
<210> 27 <211> 50 <212> DNA <213> Artificial Sequence	
<220> <223> Oligo c5p3-g	
<400> 27 ggctctgctc atcccactac gggttttccc gtagtgggat gagcagagcc	50
<210> 28 <211> 50 <212> DNA <213> Artificial Sequence	
<220> <223> Oligo B3c2	
<400> 28 ggacccaccg cgtcccctcc gggttttccc ggaggggacg cggtgggtcc	50
<210> 29 <211> 50 <212> DNA <213> Artificial Sequence	
<220> <223> Oligo e2c-g	
<400> 29 ggcactgcgg ctccggcccc gggttttccc ggggccggag ccgcagtgcc	50
<210> 30 <211> 19 <212> DNA <213> Artificial Sequence	
<220> <223> Primer Ap3-F	

ggcgagaggg aagatccag	19
<210> 31 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Primer NZlib5'	
<400> 31 ggcccaggcg gccctcgagc	20
<210> 32 <211> 44 <212> DNA <213> Artificial Sequence	
<220> <223> Primer Ap3f4-R	
<400> 32 ctcctctaat acgactcact atagggacac tcacctagcc tctg	44
<210> 33 <211> 21 <212> DNA <213> Artificial Sequence	
<220> <223> Primer m4f3	
<400> 33 cctcgcaaga tcacgacaat c	21
<210> 34 <211> 27 <212> DNA <213> Artificial Sequence	
<220> <223> PCR probe for AP3	
<400> 34 ccatttcatc ctcaagacga cgcagct	27
<210> 35 <211> 22 <212> DNA <213> Artificial Sequence	
<220> <223> PCR primer for AP3 (forward)	
<400> 35	

tttggacgag cttgacattc ag	22
<210> 36 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> PCR primer for AP3 (reverse)	
<400> 36 cgcgaacgag tttgaaagtg	20
<210> 37 <211> 44 <212> DNA <213> Artificial Sequence	
<220> <223> Oligonucleotide	
<400> 37 ctcctctaat acgactcact atagggacac tcacctagcc tctg	44
<210> 38 <211> 184 <212> PRT <213> Artificial Sequence	
<220> <223> ZFPm1	
<400> 38	
Ala Gln Ala Ala Leu Glu Pro Gly Glu Lys Pro Tyr Ala Cys Pro Glu 1 5 10 15	
Cys Gly Lys Ser Phe Ser Asp Pro Gly His Leu Val Arg His Gln Arg 20 25 30	
Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser 35 40 45	
Phe Ser Gln Arg Ala His Leu Glu Arg His Gln Arg Thr His Thr Gly 50 55 60	
Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser	•
65 70 75 80 Ser Asn Leu Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr 85 90 95	
Ala Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Asn Leu Val	
Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu 115 120 125	
Cys Gly Lys Ser Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln Arg 130 135 140	
Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser	
145 150 155 160 Phe Ser Gln Ala Gly His Leu Ala Ser His Gln Arg Thr His Thr Gly	
165 170 175 Lys Lys Thr Ser Gly Gln Ala Gly	
180	

<210> 39 <211> 184 <212> PRT <213> Artificial Sequence <220> <223> ZFPm2 <400> 39 Ala Gln Ala Ala Leu Glu Pro Gly Glu Lys Pro Tyr Ala Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser His Leu Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser 40 Phe Ser Gln Ser Ser Asn Leu Val Arg His Gln Arg Thr His Thr Gly 55 Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser 75 70 Asp Asn Leu Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Ala Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Asn Leu Val 105 Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu 120 Cys Gly Lys Ser Phe Ser Gln Ala Gly His Leu Ala Ser His Gln Arg 135 Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser 150 155 Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln Arg Thr His Thr Gly 165 170 Lys Lys Thr Ser Gly Gln Ala Gly <210> 40 <211> 184 <212> PRT <213> Artificial Sequence <220> <223> ZFPm3 <400> 40 Ala Gln Ala Ala Leu Glu Pro Gly Glu Lys Pro Tyr Ala Cys Pro Glu Cys Gly Lys Ser Phe Ser Asp Pro Gly His Leu Val Arg His Gln Arg 25 Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr Ser Gly Ser Leu Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser 70 75 Ser Ser Leu Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Ala Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Leu Val

```
100 .
                                105
                                                    110
Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu
                           120
Cys Gly Lys Ser Phe Ser Asp Ser Arg Asp Leu Ala Arg His Gln Arg
                                           140
                        135
Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser
                    150
                                        155
Phe Ser Gln Ser Ser His Leu Val Arg His Gln Arg Thr His Thr Gly
                                    170
                165
Lys Lys Thr Ser Gly Gln Ala Gly
<210> 41
<211> 184
<212> PRT
<213> Artificial Sequence
<220>
<223> ZFPm4
<400> 41
Ala Gln Ala Ala Leu Glu Pro Gly Glu Lys Pro Tyr Ala Cys Pro Glu
Cys Gly Lys Ser Phe Ser Gln Ser Ser Ser Leu Val Arg His Gln Arg
                                25
Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser
                            40
Phe Ser Gln Ser Ser Ser Leu Val Arg His Gln Arg Thr His Thr Gly
                        55
Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Asp Cys
                    70
                                        75
Arg Asp Leu Ala Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr
Ala Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Leu Val
                                105
Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu
                            120
                                               125
Cys Gly Lys Ser Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln Arg
                        135
                                            140
Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser
                    150
                                        155
Phe Ser Thr Ser Gly His Leu Val Arg His Gln Arg Thr His Thr Gly
                165
                                    170
Lys Lys Thr Ser Gly Gln Ala Gly
            180
<210> 42
<211> 184
<212> PRT
<213> Artificial Sequence
<220>
<223> ZFPAp3
Ala Gln Ala Ala Leu Glu Pro Gly Glu Lys Pro Tyr Ala Cys Pro Glu
```

```
Cys Gly Lys Ser 'Phe Ser Gln Ser Ser Ser Leu Val Arg His Gln Arg
Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser
                            40
Phe Ser Gln Ser Ser Asn Leu Val Arg His Gln Arg Thr His Thr Gly
                        55
Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser
Ser Asn Leu Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr
Ala Cys Pro Glu Cys Gly Lys Ser Phe Ser Thr Ser Gly Ser Leu Val
                               105
Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu
                            120
Cys Gly Lys Ser Phe Ser Gln Ser Ser His Leu Val Arg His Gln Arg
                       135
                                           140
Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser
                                       155
                   150
Phe Ser Thr Ser Gly Asn Leu Val Arg His Gln Arg Thr His Thr Gly
                                    170
                165
Lys Lys Thr Ser Gly Gln Ala Gly
<210> 43
<211> 18
<212> DNA
<213> Artificial Sequence
<220>
<223> Promoter 18bp 2C7
<400> 43
                                                                        18
gcgtgggcgg cgtgggcg
<210> 44
<211> 7
<212> PRT
<213> Artificial Sequence
<220>
<223> ZFP domain
<400> 44
Ser Gln Ser Ser Asn Leu Val
<210> 45
<211> 7
<212> PRT
<213> Artificial Sequence
<220>
<223> ZFP domain
<400> 45
Ser Asp Pro Gly Asn Leu Val
```

```
<210> 46
<211> 8
<212> PRT
<213> Artificial Sequence
<220>
<223> ZFP domain
<400> 46
Ser Arg Ser Asp Asn Leu Val Arg
                 5
<210> 47
<211> 7
<212> PRT
<213> Artificial Sequence
<220>
<223> ZFP domain
<400> 47
Ser Thr Ser Gly Asn Leu Val
<210> 48
<211> 8
<212> PRT
<213> Artificial Sequence
<220>
<223> ZFP domain
<400> 48
Ser Gln Ser Gly Asp Leu Arg Arg
<210> 49
<211> 8
<212> PRT
<213> Artificial Sequence
<220>
<223> ZFP domain
<400> 49
Ser Asp Cys Arg Asp Leu Ala Arg
<210> 50
<211> 8
<212> PRT
<213> Artificial Sequence
<220>
<223> ZFP domain
```

```
<400> 50
Ser Arg Ser Asp Asp Leu Val Arg
<210> 51
<211> 7
<212> PRT
<213> Artificial Sequence
<220>
<223> ZFP domain
<400> 51
Ser Thr Ser Gly Glu Leu Val
<210> 52
<211> 8
<212> PRT
<213> Artificila sequence
<220>
<223> ZFP domain
<400> 52
Ser Gln Ser Ser His Leu Val Arg
                5
<210> 53
<211> 8
<212> PRT
<213> Artificial Sequence
<220>
<223> ZFP domain
<400> 53
Ser Gln Arg Ala His Leu Glu Arg
<210> 54
<211> 8
<212> PRT
<213> Artificial Sequence
<220>
<223> ZFP domain
<400> 54
Ser Asp Pro Gly His Leu Val Arg
<210> 55
<211> 8
<212> PRT
<213> Artificial Sequence
```

```
<220>
<223> ZFP domain
<400> 55
Ser Arg Ser Asp Lys Leu Val Arg
<210> 56
<211> 8
<212> PRT
<213> Artificial Sequence
<220>
<223> ZFP domain
<400> 56
Ser Thr Ser Gly His Leu Val Arg
                5
<210> 57
<211> 8
<212> PRT
<213> Artificial Sequence
<220>
<223> ZFP domain
<400> 57
Ser Gln Ser Ser Ser Leu Val Arg
<210> 58
<211> 8
<212> PRT
<213> Artificial Sequence
<220>
<223> ZFP domain
<400> 58
Ser Asp Pro Gly Ala Leu Val Arg
<210> 59
<211> 8
<212> PRT
<213> Artificial Sequence
<220>
<223> ZFP domain
<400> 59
Ser Arg Ser Asp Val Leu Val Arg
                 5
<210> 60
<211> 8
```

```
<212> PRT
<213> Artificial Sequence
<220>
<223> ZFP domain
<400> 60
Ser Arg Lys Asp Ser Leu Val Arg
                 5
<210> 61
<211> 8
<212> PRT
<213> Artificial Sequence
<220>
<223> ZFP domain
<400> 61
Ser Thr Ser Gly Ser Leu Val Arg
<210> 62
<211> 8
<212> PRT
<213> Artificial Sequence
<220>
<223> ZFP domain
<400> 62
Ser Gln Ala Gly His Leu Ala Ser
 1
<210> 63
<211> 330
<212> DNA
<213> Artificial sequence
<220>
<223> ZFPm2a
<400> 63
                                                                         60
gaggaggagg aggtggccca ggcggccctc gagcccgggg agaagcccta tgcttgtccg
gaatgtggta agtccttcag ccgcagcgat aacctggtgc gccaccagcg tacccacacg
                                                                        120
ggtgaaaaac cgtataaatg cccagagtgc ggcaaatctt ttagccaggc cggccacctg
                                                                        180
gccagccatc aacgcactca tactggcgag aagccataca aatgtccaga atgtggcaag
                                                                        240
                                                                        300
tetttetete ggtetgacaa tetegteegg caccaacgta etcacacegg taaaaaaact
                                                                        330
agtggccagg ccggccagct cctcctctc
<210> 64
<211> 330
<212> DNA
<213> Artificial sequence
<220>
<223> ZFP2b
```

gaatgtggta ggtgaaaaac gtgcgccatc tctttctctc	agtccttctc cgtataaatg aacgcactca	ggcggccctc tcagagctct cccagagtgc tactggcgag tctcgtccgg cctcctcctc	cacctggtgc ggcaaatctt aagccataca	gccaccagcg ttagccagtc aatgtccaga	tacccacacg cagcaacctg atgtggcaag	60 120 180 240 300 330
<210> 65 <211> 18 <212> DNA <213> Arti:	ficial seque	ence				
<220> <223> Oligo	onucleotide					
<400> 65 gagtgagagg	aggaagga					18
<210> 66 <211> 5731 <212> DNA <213> Arti:	ficial seque	ence				
<220> <223> 2C7-	SID					
<400> 66						
		gatcccctat				60
-		ctgctccctg				120
		acaaggcaag				180
		ctgcttcgcg				240
		tagtaatcaa				300
tggagttccg	cgttacataa	cttacggtaa	atggcccgcc	tggctgaccg	cccaacgacc	360
		atgacgtatg				420
		tatttacggt				480
		cctattgacg				540
		tgggactttc				600
		cggttttggc				660
		ctccacccca				720
		aaatgtcgta				780
		gtctatataa				840 900
		attaatacga				960
		gaacatccag				1020
		gcacggctac cctcgagccc				1020
		tctgaagcgc				1140
		gcgtaacttc				1200
		gccttttgcc				1260
		taccaaaatc				1320
		cttttctaag				1380
		ccagtgtcga				1440
		cacccacaca				1500
		tgatgaacgc				1560
		ccaggccggc				1620
		gctcggatcc				1680

atccagcaca	gtggcggccg	ctcgagtcta	gagggcccgt	ttaaacccgc	tgatcagcct	1740
		cagccatctg				1800
ccctggaagg	tgccactccc	actgtccttt	cctaataaaa	tgaggaaatt	gcatcgcatt	1860
		attctggggg				1920
attgggaaga	caatagcagg	catgctgggg	atgcggtggg	ctctatggct	tctgaggcgg	1980
aaagaaccag	ctggggctct	agggggtatc	cccacgcgcc	ctgtagcggc	gcattaagcg	2040
cggcgggtgt	ggtggttacg	cgcagcgtga	ccgctacact	tgccagcgcc	ctagcgcccg	2100
ctcctttcgc	tttcttccct	tcctttctcg	ccacgttcgc	cggctttccc	cgtcaagctc	2160
taaatcgggg	catcccttta	gggttccgat	ttagtgcttt	acggcacctc	gaccccaaaa	2220
aacttgatta	gggtgatggt	tcacgtagtg	ggccatcgcc	ctgatagacg	gtttttcgcc	2280
ctttgacgtt	ggagtccacg	ttctttaata	gtggactctt	gttccaaact	ggaacaacac	2340
tcaaccctat	ctcggtctat	tcttttgatt	tataagggat	tttggggatt	tcggcctatt	2400
		taacaaaaat				2460
		ccccaggctc				2520
		aggtgtggaa				2580
		tagtcagcaa				2640
		tccgcccatt				2700
-		gcctctgcct				2760
		tgcaaaaagc				2820
		attaatcatc				2880
		tggccaagtt				2940
		agttctggac				3000
		tggtccggga				3060
		acaccctggc				3120
		tcgtgtccac				3180
		cgtgggggcg				3240
		aggagcagga				3300
		tgggcttcgg				3360
		tgctggagtt				3420
		gcaatagcat				3480
		tgtccaaact				3540
		tggcgtaatc				3600
		acaacatacg				3660
		tcacattaat				3720
		tgcattaatg				3780
		cttcctcgct				3840
		actcaaaggc				3900
		gagcaaaagg				3960
		ataggeteeg				4020
		acccgacagg				4080
		ctgttccgac				4140
					tcagttcggt	
		tgggctgtgt				4260
		gtcttgagtc				4320
		ggattagcag				4380
		acggctacac				4440
		gaaaaagagt				4500
		ttgtttgcaa				4560
		tttctacggg				4620
		gattatcaaa				4680
						4740
		tctaaagtat				4800
		ctatctcagc				4860
		taactacgat				4920
		cacgctcacc				4920
		gaagtggtcc				5040
		gagtaagtag				5100
tgccattgct	acayycatcg	tggtgtcacg	ctogtogttt	ggtatggctt	Carreagere	2100

cggttccaa cgatcaaggc gagttacatg atccccatg ttgtgcaaaa aagcggttag ctccttcggt cctccgatcg ttgtcagaag taagttggcc gcagtgttat cactcatggt tatggcagca ctgcataatt ctcttactgt catgccatcc gtaagatgct tttctgtgac tggtgagtac tcaaccaagt cattctgaga atagtgtatg cggcgaccga gttgctcttg cccggcgtca atacgggata ataccgcgcc acatagcaga actttaaaag tgctcatcat tggaaaacgt tcttcggggc gaaaactctc aaggatctta ccgctgttga gatccagttc gatgtaaccc actcgtgcac ccaactgatc ttcagcatct tttactttca ccagcgttc tgggtgagca aaaacaggaa ggcaaaatgc cgcaaaaaag ggaataaggg cgacacggaa atgttgaata ctcatactct tcctttttca atattattga agcatttatc agggttattg tctcatgagc ggatacatat ttgaatgtat ttagaaaaat aaacaaatag gggttccgcg cacatttccc cgaaaagtgc cacctgacgt c	5160 5220 5280 5340 5400 5460 5520 5580 5640 5700 5731
<210> 67 <211> 81 <212> DNA <213> Artificial sequence	
<220> <223> Primer F1-f1	
<400> 67 ggtaagteet teageegeag egataaeetg gtgegeeaee agegtaeeea eaegggtgaa aaaeegtata aatgeeeaga g	60 81
<210> 68 <211> 87 <212> DNA <213> Artificial sequence	
<220> <223> Primer F1-f2	
<400> 68 gaggaggagg aggtggccca ggcggccctc gagcccgggg agaagcccta tgcttgtccg gaatgtggta agtccttcag ccgcagc	60 87
<210> 69 <211> 74 <212> DNA <213> Artificial sequence	
<220> <223> Primer F2-f	
<400> 69 gccaggccgg ccacctggcc agccatcaac gcactcatac tggcgagaag ccatacaaat gtccagaatg tggc	60 74
<210> 70 <211> 66 <212> DNA <213> Artificial sequence	
<220> <223> Primer F2-b	

<400> 70 gctggccagg tggccggcct ggctaaaaga tttgccgcac tctgggcatt tatacggttt ttcacc	60 66
<210> 71 <211> 58 <212> DNA <213> Artificial sequence	
<220> <223> Primer F3-b1	
<400> 71 ccggacgaga ttgtcagacc gagagaaaga cttgccacat tctggacatt tgtatggc	58
<210> 72 <211> 81 <212> DNA <213> Artificial sequence	
<220> <223> Primer F3-b2	
<400> 72 gaggaggagg agctggccgg cctggccact agtttttta ccggtgtgag tacgttggtg ccggacgaga ttgtcagacc g	60 81
<210> 73 <211> 315 <212> DNA <213> Artificial sequence	
<220> <223> 3 finger protein C7	
<pre><400> 73 atggcccagg cggccctcga gccctatgct tgccctgtcg agtcctgcga tcgccgcttt tctaagtcgg ctgatctgaa gcgccatatc cgcatccaca caggccagaa gcccttccag tgtcgaatat gcatgcgtaa cttcagtcgt agtgaccacc ttaccacca catccgcacc cacacaggcg agaagccttt tgcctgtgac atttgtggga ggaagtttgc caggagtgat gaacgcaaga ggcataccaa aatccattta agacagaagg actctagaac tagtggccag gccggccagg ctagc</pre>	60 120 180 240 300 315
<210> 74 <211> 105 <212> PRT <213> Artificial sequence	
<220> <223> Amino acid sequence of 3 finger protein C7	
<400> 74 Met Ala Gln Ala Ala Leu Glu Pro Tyr Ala Cys Pro Val Glu Ser Cys	
1 5 10 15 Asp Arg Arg Phe Ser Lys Ser Ala Asp Leu Lys Arg His Ile Arg Ile 20 25 30	

His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp His Leu Thr Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Arg Lys Arg His Thr Lys Ile His Leu Arg Gln Lys Asp Ser Arg 85 90 Thr Ser Gly Gln Ala Gly Gln Ala Ser 100 <210> 75 <211> 184 <212> PRT <213> Artificial sequence <220> <223> Zinc finger protein ZFPm1 <400> 75 Ala Gln Ala Ala Leu Glu Pro Gly Glu Lys Pro Tyr Ala Cys Pro Glu Cys Gly Lys Ser Phe Ser Asp Pro Gly His Leu Val Arg His Gln Arg 25 Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Arg Ala His Leu Glu Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser 70 75 Ser Asn Leu Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Ala Cys Pro Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu 120 Cys Gly Lys Ser Phe Ser Arg Ser Asp Asn Leu Val Arg His Gln Arg 135 140 Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser

Phe Ser Gln Ala Gly His Leu Ala Ser His Gln Arg Thr His Thr Gly

150

165

Lys Lys Thr Ser Gly Gln Ala Gly 180 155

170